



1

SEQUENCE LISTING

<110> WANG, SHO-YA

<120> SCREEN FOR SODIUM CHANNEL MODULATORS

<130> 0794.047

<140> 10/608,584

<141> 2003-06-26

<160> 78

<170> PatentIn Ver. 3.2

<210> 1

<211> 28

<212> PRT

<213> Homo sapiens

<400> 1

Tyr Met Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
1 5 10 15

Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
20 25

<210> 2

<211> 28

<212> PRT

<213> Homo sapiens

<400> 2

Tyr Met Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
1 5 10 15

Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
20 25

<210> 3

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3

Tyr Met Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
1 5 10 15

Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
20 25

<210> 4
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 4
 Tyr Met Ile Phe Phe Val Val Ile Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 5
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 5
 Tyr Met Ile Phe Phe Met Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 6
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 6
 Tyr Met Ile Phe Phe Val Val Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 7
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 7
 Tyr Met Ile Phe Phe Val Val Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 8
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 8
 Tyr Met Ile Phe Phe Val Val Ile Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 9
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 9
 Tyr Met Ile Phe Phe Met Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 10
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 10
 Tyr Met Ile Phe Phe Met Leu Val Ile Phe Val Gly Ser Phe Tyr Pro
 1 5 10 15
 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 11
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 11
 Tyr Met Val Phe Phe Val Val Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 12
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 12
 Tyr Met Val Phe Phe Met Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 13
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 13
 Cys Leu Thr Val Phe Met Met Val Met Val Ile Gly Asn Leu Val Val
 1 5 10 15
 Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
 20 25

<210> 14
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 14
 Cys Leu Thr Val Phe Met Met Val Met Val Ile Gly Asn Leu Val Val
 1 5 10 15
 Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
 20 25

<210> 15
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 15
 Cys Leu Ile Val Phe Met Leu Val Met Val Ile Gly Asn Leu Val Val
 1 5 10 15
 Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
 20 25

<210> 16
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 16
 Cys Leu Leu Val Phe Leu Leu Val Met Val Ile Gly Asn Leu Val Val
 1 5 10 15
 Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
 20 25

<210> 17
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 17
 Cys Leu Thr Val Phe Leu Met Val Met Val Ile Gly Asn Leu Val Val
 1 5 10 15
 Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
 20 25

<210> 18
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 18
 Cys Leu Leu Val Phe Leu Leu Val Met Val Ile Gly Asn Leu Val Val
 1 5 10 15
 Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe
 20 25

<210> 19
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 19
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 20
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 20
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 21
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 21
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 22
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 22
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 23
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 23
 Met Tyr Ile Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 24
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 24
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Gly Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Val Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 25
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 25
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 26
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 26
 Met Tyr Ile Tyr Phe Val Val Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 27
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 27
 Met Tyr Leu Tyr Phe Val Val Phe Ile Ile Phe Gly Ser Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 28
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 28
 Met Tyr Ile Tyr Phe Val Val Phe Ile Ile Phe Gly Gly Phe Phe Thr
 1 5 10 15
 Leu Asn Leu Phe Val Gly Val Ile Ile Asp Asn Phe
 20 25

<210> 29
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 29
 Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe
 20 25

<210> 30
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 30
 Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe
 20 25

<210> 31
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 31
 Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe
 20 25

<210> 32
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 32
 Gly Ile Cys Phe Phe Cys Ser Tyr Ile Ile Ile Ser Phe Leu Ile Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe
 20 25

<210> 33
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 33
 Gly Ile Leu Phe Phe Thr Thr Tyr Ile Ile Ile Ser Phe Leu Ile Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe
 20 25

<210> 34
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 34
 Gly Ile Cys Phe Phe Cys Ser Tyr Ile Ile Ile Ser Phe Leu Ile Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe
 20 25

<210> 35
 <211> 28
 <212> PRT
 <213> Rattus sp.

<400> 35
 Gly Ile Leu Phe Phe Thr Thr Tyr Ile Ile Ile Ser Phe Leu Ile Val
 1 5 10 15
 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe
 20 25

<210> 36
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 36
Trp Ile Leu Ala Val Val Ala Met Ala Tyr
1 5 10

<210> 37
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 37
Tyr Ile Leu Ala Val Val Ala Met Ala Tyr
1 5 10

<210> 38
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 38
Phe Ile Leu Ala Val Val Ala Met Ala Tyr
1 5 10

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 39
Leu Ile Leu Trp Val Val Ala Met Ala Tyr
1 5 10

<210> 40
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 40
 Leu Ile Leu Tyr Val Val Ala Met Ala Tyr
 1 5 10

<210> 41
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 41
 Leu Ile Leu Phe Val Val Ala Met Ala Tyr
 1 5 10

<210> 42
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 42
 Leu Ile Cys Trp Val Val Ala Met Ala Tyr
 1 5 10

<210> 43
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 43

Leu Ile Cys Tyr Val Val Ala Met Ala Tyr
1 5 10

<210> 44

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 44

Leu Ile Cys Phe Val Val Ala Met Ala Tyr
1 5 10

<210> 45

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 45

Trp Ile Cys Trp Val Val Ala Met Ala Tyr
1 5 10

<210> 46

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 46

Tyr Ile Cys Tyr Val Val Ala Met Ala Tyr
1 5 10

<210> 47

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 47

Phe Ile Cys Phe Val Val Ala Met Ala Tyr
1 5 10

<210> 48

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 48

Trp Ile Cys Tyr Val Val Ala Met Ala Tyr
1 5 10

<210> 49

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 49

Trp Ile Cys Phe Val Val Ala Met Ala Tyr
1 5 10

<210> 50

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 50

Tyr Ile Cys Trp Val Val Ala Met Ala Tyr
1 5 10

<210> 51
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 51
Phe Ile Cys Trp Val Val Ala Met Ala Tyr
1 5 10

<210> 52
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 52
Tyr Ile Cys Tyr Val Val Ala Met Ala Tyr
1 5 10

<210> 53
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 53
Phe Ile Cys Phe Val Val Ala Met Ala Tyr
1 5 10

<210> 54
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 54
Tyr Ile Cys Phe Val Val Ala Met Ala Tyr
1 5 10

<210> 55
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 55
Phe Ile Cys Tyr Val Val Ala Met Ala Tyr
1 5 10

<210> 56
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 56
Leu Ile Trp Ala Val Trp Ala Met Ala Tyr
1 5 10

<210> 57
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 57
Leu Ile Tyr Ala Val Trp Ala Met Ala Tyr
1 5 10

<210> 58
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 58

Leu Ile Phe Ala Val Trp Ala Met Ala Tyr
1 5 10

<210> 59

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 59

Leu Ile Leu Ala Val Trp Ala Met Ala Tyr
1 5 10

<210> 60

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 60

Met Tyr Ile Ala Trp Ile Leu Glu Asn Phe
1 5 10

<210> 61

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 61

Met Tyr Ile Ala Tyr Ile Leu Glu Asn Phe
1 5 10

<210> 62

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 62

Met Tyr Ile Ala Phe Ile Leu Glu Asn Phe
1 5 10

<210> 63

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 63

Met Tyr Ile Ala Ile Trp Leu Glu Asn Phe
1 5 10

<210> 64

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 64

Met Tyr Ile Ala Ile Tyr Leu Glu Asn Phe
1 5 10

<210> 65

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 65

Met Tyr Ile Ala Ile Phe Leu Glu Asn Phe
1 5 10

<210> 66
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 66
Met Tyr Ile Ala Cys Ile Leu Glu Asn Phe
1 5 10

<210> 67
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 67
Met Tyr Ile Ala Ile Cys Leu Glu Asn Phe
1 5 10

<210> 68
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 68
Met Tyr Ile Ala Trp Trp Leu Glu Asn Phe
1 5 10

<210> 69
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 69
Met Tyr Ile Ala Tyr Tyr Leu Glu Asn Phe
1 5 10

<210> 70
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 70
 Met Tyr Ile Ala Phe Phe Leu Glu Asn Phe
 1 5 10

<210> 71
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 amino acid sequence

<220>
 <221> MOD_RES
 <222> (6)
 <223> Val or Met

<220>
 <221> MOD_RES
 <222> (7)
 <223> Leu or Val

<220>
 <221> MOD_RES
 <222> (8)
 <223> Ile or Val

<220>
 <221> MOD_RES
 <222> (17)
 <223> Ile or Val

<400> 71
 Tyr Met Ile Phe Phe Xaa Xaa Xaa Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15

Xaa Asn

<210> 72
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 amino acid sequence

<400> 72
 Tyr Met Ile Phe Phe Met Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu
 1 5 10 15
 Val Asn Trp Ile Leu Ala Val Val Ala Met Ala Tyr
 20 25

<210> 73
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 73
 ctcacatc tgatctgctg ggtggtggcc atggcgtag 39

<210> 74
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 74
 cctcatcaat tggatctgct ggggtggtggc catggcgtag 40

<210> 75
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 75
 cctcatcaat ctgatctgct ggggtggtggc catggcatat g 41

<210> 76
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 76
gctctttcta cctcatcaat tggatctgct gggtaggtggc catggcatat gc 52

<210> 77
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 77
cctggtagaac ctgatctgct gggtaggtcgc aatggcc 37

<210> 78
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 78
ccttctacct ggtgaactgg atctgctggg 30